IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants:	William W. Shumway et al.)	
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INFORMATION DISCLOSURE STATEMENT

ASSISTANT COMMISSIONER FOR PATENTS Washington, D.C. 20231

SIR:

The following documents are known to Applicants or Applicants' attorneys and are submitted for the Examiner to consider in the above-captioned application.

U. S. PATENTS

- U.S. Patent No. 3,125.517 issued March 17, 1964 to Ronald L. Voda et al.
- U.S. Patent No. 3,826,771 issued July 30, 1974 to Donald R. Anderson et al.
- U.S. Patent No. 4,033,784 issued July 5, 1977 to Michael B.Lawson et al.
- U.S. Patent No. 4,068,676 issued January 17, 1978 to Donald J. Thorn et al.
- U.S. Patent No. 4,107,057 issued August 15, 1978 to Walter R. Dill et al.
- U.S. Patent No. 4,108,681 issued August 22, 1978 to Michael B. Lawson et al.
- U.S. Patent No. 4,392,917 issued July 12, 1983 to Stanley A. Lipowski et al.
- U.S. Patent No. 4,460,483 issued July 17, 1984 to Jimmie d. Weaver.
- U.S. Patent No. 4,480,696 issued November 6, 1984 to Stephen W. Almond et al.
- U.S. Patent No. 4,502,963 issued March 5, 1985 to Bobby R. Harmon et al.

- U.S. Patent No. 4,519,455 issued May 28, 1985 to Marlin D. Holtmyer et al.
- U.S. Patent No. 4,554,082 issued November 19, 1985 to Marlin D. Holtmyer et al.
- U.S. Patent No. 4,627,495 issued December 9, 1986 to Phillip C. Harris et al.
- U.S. Patent No. 4,659,486 issued April 21, 1987 to Bobby R. Harmon.
- U.S. Patent No. 4,670,550 issued June 2, 1987 to Jan J. Bleeker et al.
- U.S. Patent No. 4,772,646 issued September 20, 1988 to Weldon M. Harms et al.
- U.S. Patent No. 5,021,170 issued June 4, 1991 to Thomas G. Shumate et al.
- U.S. Patent No. 5,194,422 issued March 16, 1993 to Heinz Mueller et al.
- U.S. Patent No. 5,232,910 issued August 3, 1993 to Heinz Mueller et al.
- U.S. Patent No. 5,252,554 issued October 12, 1993 to Heinz Mueller et al.
- U.S. Patent No. 5,254,531 issued October 19, 1993 to Heinz Mueller et al.
- U.S. Patent No. 5,294,353 issued March 15, 1994 to Walter r. Dill.
- U.S. Patent No. 5,318,956 issued June 7, 1994 to Heinz Mueller et al.
- U.S. Patent No. 5,355,958 issued October 18, 1994 to Richard W. Pauls et al.
- U.S. Patent No. 5,427,699 issued June 27, 1995 to Richard W. Pauls et al.
- U.S. Patent No. 5,489,394 issued February 6, 1996 to William G.F. Ford et al.
- U.S. Patent No. 5,830,483 B1 issued November 3, 1998 to Kurt Seidel et al.
- U.S. Patent No. 5,869,434 issued February 9, 1999 to Heinz Mueller et al.
- U.S. Patent No. 5,909,774 issued June 8, 1999 to James E. Griffith et al.
- U.S. Patent No. 5,939,081 issued August 17, 1999 to Achim Ansmann et al.
- U.S. Patent No. 6,218,342 B1 issued April 17, 2001 to Avind D. Patel.
- U.S. Patent No. 6,268,406 B1 issued July 31, 2001 to Jiten Chatterji et al.
- U.S. Patent No. 6,315,042 B1 issued November 13, 2001 to James E. Griffith et al.

- U.S. Patent No. 6,422,325 B1 issued July 23, 2002 to Darrell L. Krieger.
- U.S. Patent No. 6,435,276 B1 issued August 20, 2002 to James D. Kercheville et al.
- U.S. Patent No. 6,524,384 B2 issued February 25, 2003 to James E. Griffith et al.
- U.S. Patent No. 6,596,670 B1 issued July 22, 2003 to Heinz Mueller et al.
- U.S. Patent No. 6,608,006 B2 issued August 19, 2003 to Robert S. Taylor et al.
- U.S. Patent No. 6,620,770 B1 issued September 16, 2003 to Jeff Kirsner et al.
- U.S. Patent No. 6,662,871 B2 issued December 16, 2003 to James D. Kercheville et al.
- U.S. Patent No. 6,666,268 B2 issued December 23, 2003 to James E. Griffith et al.
- U.S. Patent No. 6,668,929 B2 issued December 30, 2003 to James E. Griffith et al.
- U.S. Patent No. 6,691,805 B2 issued February 17, 2004 to Carl J. Thaemlitz.
- U.S. Patent No. Re. 32, 302 issued December 9, 1986 to Stephen W. Almond et al.
- U.S. Patent No. Re. 36,066 issued January 26, 1999 to Heinz Mueller et al.

U.S. PATENT APPLICATION PUBLICATION

- U.S. Patent Application Publication No. US 2001/0009890 A1 published July 26, 2001, to Arvind D. Patel et al.
- U.S. Patent Application Publication No. US 2001/0051593 A1 published December 13, 2001, to Arvind D. Patel.
- U.S. Patent Application Publication No. US 2002/0033258 A1 published March 21, 2002 to Arvind D. Patel
- U.S. Patent Application Publication No. US 2002/0125013 A1 published September 12, 2002 to James D. Kercheville et al.
 - U.S. Patent Application Publication No. US 2002/0148609 A1 published October 17,

2002 to James D. Kercheville et al.

- U.S. Patent Application Publication No. US 2003/0075360 A1 published April 24, 2003 to Arvind D. Patel et al.
- U.S. Patent Application Publication No. US 2003/0114316 A1 published June 19, 2003 to Arvind D. Patel et al.
- U.S. Patent Application Publication No. US 2004/0043905 A1 published March 4, 2004 to Jeff Miller et al.

FOREIGN PATENTS

European Patent Specification Number 0 137 538 B1 published March 14, 1990.

OTHER PUBLICATIONS

Paper entitled "Chalk Emulsion: A New Completion and Workover Fluid" By H.C.H. Darley, July 1972.

SPE 77497 entitled "Crude Oil Emulsions: A State-Of-The Art Review" By Sunil Kokal, dated October 2002.

Paper entitled "Factors Controlling the Stability of Colloid-Stabilized Emulsions" by David E. Tambe et al., Journal of Colloid and Interface Science, dated July 1993.

Paper entitled "Factors Controlling the Stability of Colloid-Stabilizing Emulsions" by David E. Tambe et al., Journal of Colloid and Interface Science, dated October 1994.

Paper entitled "A Study of the Formation of Water-In-Oil Emulsions" by Mark Bobra.

Paper entitled "Oil Well Drilling Fluids", pages 320-324.

Copies of the non-patented references and Form PTO-1449 are submitted herewith.

Respectfully submitted,

Craig W. Roddy

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Duncan, OK 73536-0440

580-251-3012

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APPLICANT		FORM PTO-1449 (Modified) LIST OF PATENTS AND PUBLICATIONS			ATTY. DOCKET NO. 2003-IP-012703U1		SERIAL NO. unknown			
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Document No. Date Name Class Subclass Approx					J.S. PATENT DOCUMENTS					
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AA 3,125,517 03/17/64 Voda et al. 252 8.5 AB 3,826,771 07/30/74 Anderson et al. 260 39.6 H AC 4,033,784 07/05/77 Lawson et al. 134 20 AD 4,068,676 01/17/78 Thorn et al. 137 13 AE 4,107,057 08/15/78 Dill et al. 252 8.55 C AF 4,108,681 08/22/78 Lawson et al. 134 20 AG 4,392,917 07/12/83 Lipowski et al. 162 168.1 AH 4,460,483 07/17/84 Weaver 252 8.55 R AI 4,480,696 11/06/84 Almond et al. 166 308 AJ 4,502,963 03/05/85 Harmon 252 8.5 P AK 4,519,455 05/28/85 Holtmyer et al. 166 305 R FOREIGN PATENT DOCUMENTS Document No. Date Country Class Subclass Yes AL 0 137 538 B1 03/14/90 Europe CO9K 7/06 X AN AN AN AO AP OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.) AR Paper entitled "Chalk Emulsion: A New Completion and Workover Fluid By H.C.H. Darley, July 1972. AS SPE 77497 entitled "Crude Oil Emulsions: A State-Of-The Art Review By Sunil Kokal, dated October 2002. AT Paper entitled "Factors Controlling the Stability of Colloid-Stabilized Emulsions" by David E. Tambe et al., Journal of Colloid Interface Science, dated July 1993. EXAMINER DATE ONSIDERED			Dammank Na	Data		~1		1	eif	
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AD 4,068,676 01/17/78 Thorn et al. 137 13 AE 4,107,057 08/15/78 Dill et al. 252 8.55 C AF 4,108,681 08/22/78 Lawson et al. 134 20 AG 4,392,917 07/12/83 Lipowski et al. 162 168.1 AH 4,460,483 07/17/84 Weaver 252 8.55 R AI 4,480,696 11/06/84 Almond et al. 166 308 AJ 4,502,963 03/05/85 Harmon 252 8.5 P AK 4,519,455 05/28/85 Holtmyer et al. 166 305 R FOREIGN PATENT DOCUMENTS Document No. Date Country Class Subclass Yes AL 0 137 538 B1 03/14/90 Europe CO9K 7/06 X AM AN AN AN AO AO AP OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.) By H.C.H. Darley, July 1972. AS SPE 77497 entitled "Crude Oil Emulsions: A State-Of-The Art Review By Sunil Kokal, dated October 2002. AT Paper entitled "Factors Controlling the Stability of Colloid-Stabilized Emulsions" by David E. Tambe et al., Journal of Colloid Interface Science, dated July 1993. EXAMINER DATE ON THE ART CONSIDERED					1					
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NITIAL	AA	5,318,956	Date 06/07/94	Name Mueller et al.	Class	Subclass	Appropriate		
	AB	5,355,958	10/18/94		166	307			
	AC	5,427,699	06/27/95		507	244	ļ		
	AD	5,489,394	02/06/96		252	<u> </u>			
	AE	5,830,483	11/03/98		424	162 401			
	AF	5,869,434	02/09/99		507	110			
	AG	5,909,774	06/08/99		166	312			
	AH	5,939,081	08/17/99	L	424	401			
	AI	6,218,342 B1	04/17/01		507	129			
	AJ	6,268,406 B1	07/31/01		523	130			
	AK	6,315,042 B1	11/13/01	_	166	291			
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INITIAL		Document No.	Date	Name	Class		Appro	priate
	AA	6,422,325 B1	07/23/02	1	175	50		
	AB	6,435,276 B1	08/20/02	Kercheville et al.	166	255.1	-	
	AC	6,524,384 B2	02/25/03	Griffith et al.	106	705		
	AD	6,596,690 B1	07/22/03	Mueller et al.	507	136		
	ΑE	6,608,006 B2	08/19/03	Taylor et al.	507	131		
	AF	6,620,770 B1	09/16/03	Kirsner et al.	507	131		
	AG	6,662,871 B2	12/16/03	Kercheville et al.	166	255.1		
•	AH	6,666,268 B2	12/23/03	Griffith et al.	166	292		
	ΑI	6,668,929 B2	12/30/03	Griffith et al.	166	292	-	
	ΑJ	6,691,805 B2	02/17/04	Thaemlitz	175	65		
	AK	Re 32,302	12/09/86	Almond et al.	166	308	-	-
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FORM PTO-1449 (Modified) LIST OF PATENTS AND PUBLICATIONS	ATTY. DOCKET NO. 2003-IP-012703U1	SERIAL NO. unknown
FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT	APPLICANT William W. Shumway et al	1.
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	AB	US	07/26/01	Patel et al.				
	AD	2001/0009890 A1	07/26/01	rater et ar.	507	138		
	AC	US 2001/0051593 A1	12/13/01	Patel	507	129		
	AD	US 2002/0033258 A1	03/21/02	Patel	166	278		,
	AE	US 2002/0125013 A1	09/12/02	Kercheville et al.	166	301		
	AF	US 2002/0148609 A1	10/17/02	Kercheville et al.	166	255.1		
	AG	US 2003/0075360 A1	04/24/03	Patel et al.	175	50		
	АН	US 2003/0114316 A1	06/19/03	Patel et al.	507	138	_	
	AI	US 2004/0043905 A1	03/04/04	Miller et al.	507	100		
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